BILL NO. S-77-12-34

SPECIAL ORDINANCE NO. S-06-78

AN ORDINANCE approving Change Order No. 17 in connection with Job No. 3263.8D - Division I - Water Pollution Control Plant Additions.

BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1. That Change Order No. 17 to Hagerman-Shambaugh Joint Bidders in connection with Job No. 3263.8D - Division I - Water Pollution Control Plant Additions in the amount of $25,738.00 from Federal Funds, as set out in the specifications, is hereby in all things ratified, confirmed and approved.

SECTION 2. This Ordinance shall be in full force and effect from and after its passage and approval by the Mayor.

Councilman

APPROVED AS TO FORM AND LEGALITY

ATTORNEY

Read the first time in full and on motion by Burns, seconded by Dolsen, and duly adopted, read the second time by title and referred to the Committee on City Utilities (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on _____, the _____ day of _____, 19__, at _____ o'clock ____ M., E.S.T.

DATE: 12-27-77.

Charles W. Westerman
CITY CLERK

Read the third time in full and on motion by Burns, seconded by Stier, and duly adopted, placed on its passage.

PASSED ~~(LOST)~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT	TO-WIT:
TOTAL VOTES	8	0		1	
BURNS	X				
HINGA				X	
HUNTER	X				
MOSES	X				
NUCKOLS	X				
SCHMIDT, D.	X				
SCHMIDT, V.	X				
STIER	X				
TALARICO	X				

DATE: 1/10/78

Charles W. Westerman
CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ZONING MAP)~~ ~~(GENERAL)~~ ~~(ANNEXATION)~~ (SPECIAL) ~~(APPROPRIATION)~~ ORDINANCE ~~(RESOLUTION)~~ No. S-06-78 on the 10th day of Jan., 19 78

ATTEST: (SEAL)

Charles W. Westerman
CITY CLERK

Samuel J. Talarico
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 11th day of Jan., 19 78, at the hour of 3 o'clock P M., E.S.T.

Charles W. Westerman
CITY CLERK

Approved and signed by me this 11th day of January, 19 78 at the hour of 6:00 o'clock P. M., E.S.T.

Robert E. Armstrong
MAYOR

Bill No. S-77-12-34

REPORT OF THE COMMITTEE ON CITY UTILITIES

We, your Committee on City Utilities to whom was referred an Ordinance approving Change Order No. 17 in connection with Job. No. 3263.8D - Division I - Water Pollution Control Plant Additions

have had said Ordinance under consideration and beg leave to report back to the Common Council that said Ordinance do PASS.

PAUL M. BURNS - CHAIRMAN

JAMES S. STIER - VICE CHAIRMAN

VIVIAN G. SCHMIDT

WINFIELD C. MOSES, JR.

FREDRICK R. HUNTER

PROJECT WATER QUALITY CONTROL PROJECT OWNER CITY OF FORT WAYNE, INDIANA

DIVISION/SECTION I - Water Pollution Control Plant Additions

CHANGE ORDER NO. 17

TO: Hagerman-Shambaugh - Joint Bidders
c/o Hagerman Construction Corporation
403 Strauss Building
P. O. Box 690
Fort Wayne, Indiana 46801

You are hereby authorized to make the following additions and/or deductions to your contract amount.

	Previous Contract Amount	Increase	Decrease	Net Change (Deduct) (Add)	Revised Contract Amount
TOTAL	$21,306,492.10	$ 28,298.00	$ 2,560.00	$ 25,738.00	$ 21,332,230.10

Description of Change:	Add	Deduct
GENERAL CONSTRUCTION CHANGES		
Item No. 1		
Furnish all labor and materials necessary to substitute two aluminum fabricated light poles in lieu of two manufactured poles which were specified to be installed at the tank car unloading facility.	-0-	-0-
Item No. 2		
Furnish all labor and material necessary to install a manual air bleed off and backflushing system to the septic sludge receiving station drain line. See attached drawing No. SP-2 for details. Following is a cost breakdown of the change:		
New Pipe & Valves $ 101.00		
Labor 285.00		
Painting 50.00		
Deletion of Specified Relief Valve - 35.00		
Subtotal	$ 401.00	

PROJECT WATER QUALITY CONTROL PROJECT Job No. 3263.8D

CHANGE ORDER NO. 17

Description of Change:	Add	Deduct
Item No. 3 Furnish all labor and materials necessary to insulate the existing Stormwater Screening Building. The insulation shall have a 1-inch sprayed on urethane undercoat and 1-inch sprayed on finish coat of insulation with a rating 11.3. The area requiring insulation is approximately 78' x 60'.	$13,417.00	
Item No. 4 Delete the reassembly of the existing Worthington engine and Roots blower unit after removing it from the Main Control Building.		$ 1,450.00
Item No. 5 Furnish all labor and material necessary to install a section of aluminum handrail at one end of each of the four new Secondary Tank equipment bridges. See Attachment "A" for details.	1,569.00	
Item No. 6 Furnish all labor and materials necessary to reinforce the steel sheeting located at the east property line along the river. The addition of the reinforcement entails mounting two 8" channels to the sheeting, excavating the fill behind the sheeting, installing 90 LF of 1/2" S.S. aircraft cable, and then backfilling the excavation. Following is a breakdown of the additional cost: (See Attachment "B") Excavation $1,285.00 Material 1,056.00 Labor 264.00		
Subtotal	2,605.00	

Description of Change:	Add	Deduct
Item No. 7		
Delete the installation of two new exhaust fans, motorized louvers and ductwork in the existing Stormwater Pumping Building, as shown on Sheet E-34 of the Specifications. The proposed fans were to exhaust heat from the new resistor banks. Change Order No. 18 relocated the banks outside, thus eliminating the need of the two fans.		$ 1,110.00
Item No. 8		
Furnish all labor and materials necessary to repair approximately 241 linear feet of the top of the west wye wall on Aeration Tank No. 1. The work entails removing all the existing concrete planks, removing the bad concrete, removing the top of the remaining wall, then forming for the new concrete, installing a new expanded joint, filling in the wye wall with sand and pouring a 3-inch thick by 4-foot wide concrete walk the full length of the aeration tank. Following is a breakdown of the additional cost:		
Labor $2,902.00 Material & Equipment 1,497.00 $4,399.00 Deduct 127 linear feet of wall repair in bid -$1,397.00		
Subtotal	$3,002.00	
Item No. 9		
Furnish all labor and material necessary to paint the exterior surface of the four new blower enclosures and the engine generator enclosures. The coating shall be in compliance with Section D-15 of the Specifications. Approximately 7,500 SF of metal enclosure will be required to be coated.	6,000.00	

PROJECT WATER QUALITY CONTROL PROJECT Job No. 3263.80

CHANGE ORDER NO. 17

PAGE -4-

Description of Change:	Add	Deduct
Item No. 10 Furnish all labor and material necessary to install three concrete blocks, three piers and one concrete end sill in each of the two existing grit channels. The blocks and sill shall be installed as detailed on the attached sketch.	$ 616.00	
Item No. 11 Furnish all labor and materials necessary to install a new weatherproof telephone station at the new railroad tank car unloading facility on south side of Dwenger Ave. The unit shall be identical to the 3 new units being installed at the plant entrance gates.	688.00	
TOTAL ALL ITEMS	$28,298.00	$2,560.00
TOTAL NET CHANGE	$25,738.00	

THE FOREGOING CHANGES SHALL HAVE NO EFFECT ON THE COMPLETION TIME OF THIS PROJECT.

RECOMMENDED:

HOWARD NEEDLES TAMMEN & BERGNEDOFF
HENRY B. STEEG & ASSOCIATES DIVISION

By Ray H. Hochen

Title Project Engineer Date 11/23/77

ACCEPTED:

HAGERMAN-SHAMBAUGH, Joint Bidders
ACCEPTED FOR HAGERMAN CONSTRUCTION CORP.
CONTRACTOR

By Mark L. Hagerman

Title Vice Pres. Date 11/23/77

ACCEPTED FOR SHAMBAUGH & SON, INC.
CONTRACTOR

By [signature]

Title Secy Date 11/28/77

APPROVED:

CITY OF FORT WAYNE, INDIANA
OWNER

By Henry P. Wehrenberg

Henry P. Wehrenberg, Chairman

Ethel H. LaMar, Member

Max Scott, Member

Title BOARD OF PUBLIC WORKS

Date

Change Order No. 17

Item No. 1

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The substitution of fabricated light poles in lieu of poles specified is necessary because the manufacturer of the specified poles is no longer in business. The fabricated poles proposed by the Contractor are equal to or stronger than the specified poles and will perform the function intended by the plans and specifications.

2. Will proposed change alter size of the project? Yes _____ No X

If yes, explain

3. Affect on operation and maintenance cost of this project:

N/A

Engineer

Item No. 2

Change Order No. 17

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: An air bleed-off and backflushing system is necessary to provide a means of flushing out the septic sludge pump suction line. The type of material dumped into the receiving station by the septic tank cleaning trucks has the possibility of including rags and other debris which clog the line. The flushing system will help in clearing the line if clogging occurs.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor will be required

3. Affect on operation and maintenance cost of this project:

   The flushing system will reduce the maintenance time required if the sludge line should need cleaning.

_____

Engineer

Change Order No. 17

Item No. 3

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The screening room of the existing Stormwater Pumping Building, during past winters, has experienced temperatures which froze vital water lines. The new stormwater pumps have a water lubrication and a cooling system which must be in service before the pumps will start. Therefore, to provide a reliable and secure pumping and screening facility, the City water supply has to be functionable at all times. The insulating of the room will reduce the possibility of the water line freezing, plus reduce the annual heating cost. The present room is an uninsulated metal building.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor will be required.

3. Affect on operation and maintenance cost of this project:

   The cost of heating the building will be reduced due to the insulation.

_____

Engineer

Change Order No. 17

Item No. 4

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The reassembly of the existing Worthington engine and Roots blower unit located in the existing Main Control Building is unnecessary due to the present condition of the unit. The unit is 37 years old and is in poor and unserviceable condition. The engine would require a major overhaul plus replacement of major parts to put it into service at another installation. Therefore, the engine does not warrant the reassembly cost since it will not be reused.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   A cost savings will be encountered for the deletion of the labor cost for the reassembly.

3. Affect on operation and maintenance cost of this project:

   N/A

_____

Engineer

Change Order No. 17

Item No. 5

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The addition of a new handrail assembly around the end of the new secondary settling tank bridges is determined necessary to provide a safer area to work on the secondary tank drive mechanism. The proposed handrail will extend around the drive units to prevent plant personnel from falling into the tank. Presently, there is not any handrail section or any type of guard around the lower part of the bridges at the drive motor.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor will be required.

3. Affect on operation and maintenance cost of this project:

   The security of the plant personnel will be improved while performing maintenance on the new secondary settling tank drive units.

_____

Engineer

Change Order No. 17

Item No. 6

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The addition of reinforcement cables to the new steel sheeting at the east property line has become necessary due to the unstable soil conditions encountered. The sheeting was installed along the river where the soil conditions are not stable enough to resist the applied loadings. The new reinforcing cables will tie the sheeting together.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor will be required.

3. Affect on operation and maintenance cost of this project:

   N/A

_____

Engineer

Item No. 7

Change Order No. 17

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The proposed new exhaust fans in the stormwater station roof are not required because the new resistor banks are to be relocated from inside the building to the outside. The new fans were intended to be cooling fans for the resistor banks enclosed inside the building. With the relocation, the fans will not be required.

2. Will proposed change alter size of the project? Yes X No _____

If yes, explain

Less material and labor will be required.

3. Affect on operation and maintenance cost of this project:

N/A

_____

Engineer

Item No. 8

Change Order No. 17

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The repair of the existing concrete wye wall on the existing Aeration Tank No. 1 is necessary due to the present deteriorated, unsafe condition of the concrete. The concrete wall was built in 1940 and over the years the top of the wall has deteriorated. The wall requires the removal of the concrete and construction of a new concrete cap. The existing handrail mounted on top of the wall is unsafe and loose and must be reanchored to a good, sound concrete surface.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor is required.

3. Affect on operation and maintenance cost of this project:

   N/A

_____

Engineer

Item No. 9

Change Order No. 17

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The new engine and blower enclosures are to be painted because the present galvanized coating is not a final finish coating. No finish coat was originally specified because the condition of the galvanized coating was thought sufficient. However, after installation, it is determined that finish painting is necessary for external surface protection.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor will be required.

3. Affect on operation and maintenance cost of this project:

   N/A

_____

Engineer

Item No. 10

Change Order No. 17

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The installation of energy dissipators in the existing grit channels is necessary to reduce the incoming water turbulence for more efficient grit removal and equipment operation. The water forces the new rake on the bar screen to bind and jamb. The new energy dissipators will reduce the forces against the rake and provide a smoother operation.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

   Additional material and labor will be required.

3. Affect on operation and maintenance cost of this project:

   N/A

_____

Engineer

Change Order No. 17

Item No. 11

Board Order No. _____

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change: The addition of an outside weatherproof telephone is necessary to provide communication system between the chemical & chlorine storage tanks and the unloading facility. During the tank car unloading process, it requires a person at each location to control valves and switch tanks as they fill. The phone system will reduce chances of spillage of chemicals and decrease the time required to unload the tank cars. It will also serve as a safety device to seek help to personnel if an accident should develop. The new existing unit has corroded and must be replaced; however, to protect the new proposed unit, it shall be mounted in a gas tight weather-proof enclosure outside the building to minimize exposure to corrosive atmosphere.

2. Will proposed change alter size of the project? Yes X No _____

   If yes, explain

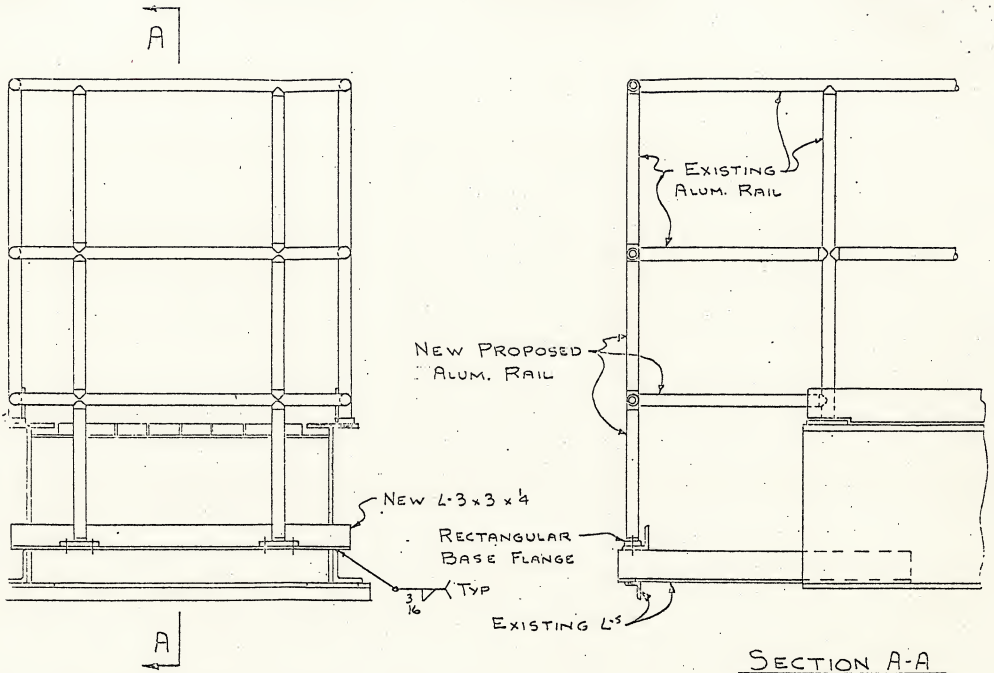
   Additional material and labor will be required.

3. Affect on operation and maintenance cost of this project:

   The operational cost would be reduced due to being able to unload railroad tank cars more quickly and efficiently.

_____

Engineer



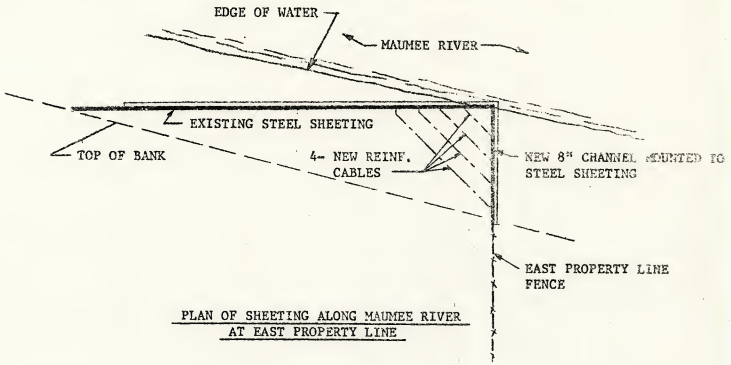
VIEW @ BACKSIDE

SECTION A-A

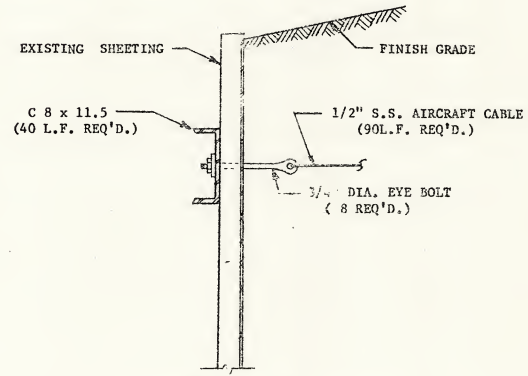
FT. WAYNE S.T.P.
ATTACHMENT "A"

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF	Made by K.A. K.	Date 10/17/77	Job No. 1263-63-20
	Checked by	Date	Sheet No. 1 of 1

For FORT WAYNE W. P. C. P. - DIV. I - ATTACHMENT " B " CHANGE ORDER #17



PLAN OF SHEETING ALONG MAUMEE RIVER AT EAST PROPERTY LINE

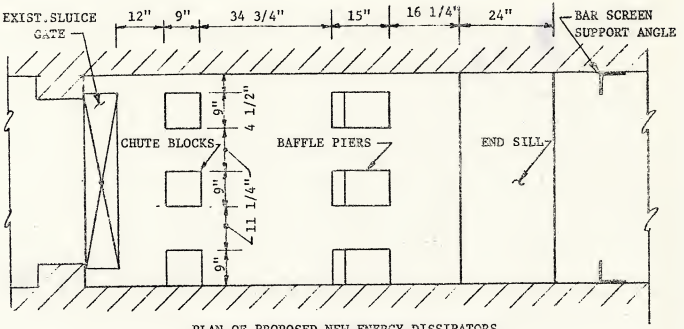


REINFORCING CHANNEL AND CABLE DETAIL

M-101-374-2004

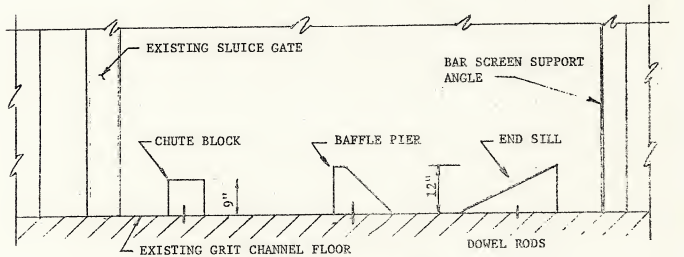
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF	Made by K.A.K.	Date 10-20-77	Job No. 3263-43-00
	Checked by	Date	Sheet No. 1 of 1

For FORT WAYNE, W.P.C.P.---- GRIT CHANNEL ENERGY DISSIPATOR DETAILS ATTACHMENT "C"



PLAN OF PROPOSED NEW ENERGY DISSIPATORS
LOCATED IN EXISTING GRIT CHANNEL
SCALE 1/2"= 1'-0"

(TYPICAL NORTH & SOUTH CHANNELS)



SECTION THRU EXISTING GRIT CHANNEL
SCALE 1/2" = 1'-0"

ME101-3/4-20M

3918

TITLE OF ORDINANCE SPECIAL ORDINANCE - CHANGE ORDER NO. 17 - WATER POLLUTION CONTROL PLANT ADD-DIV I

DEPARTMENT REQUESTING ORDINANCE BOARD OF PUBLIC WORKS L-77-12-34.

SYNOPSIS OF ORDINANCE CONSTRUCTION CHANGES AS FOLLOWS: SUBSTITUTE FABRICATED LIGHT POLES (SPECIFIED POLES IN PLANS NO LONGER MANUFACTURED), INSTALL AIR BLEED-OFF AND BACKFLUSHING SYSTEM TO PROVIDE MEANS OF FLUSHING SEPTIC SLUDGE PUMP SUCTION LINE, NEW STORMWATER PUMPS TO REDUCE POSSIBILITY OF WATER LINE FREEZING, REMOVE 37 YR. OLD WORTHINGTON ENGINE AND ROOTS BLOWER UNIT WHICH WILL REQUIRE AN OVERHAUL & AGE OF ENGINE DOES NOT WARRANT REASSEMBLY, ADDITION OF HANDRAIL ASSEMBLY AROUND SETTLING TANK BRIDGES FOR SAFETY, NEW REINFORCING CABLES TO TIE NEW STEEL SHEETING TOGETHER DUE TO UNSTABLE SOIL CONDITIONS, NEW EXHAUST FANS TO BE REMOVED AS THEY ARE NOT REQUIRED WITH NEW RESISTOR BANKS, REPAIR DETERIORATED, UNSAFE CONDITION OF CONCRETE WALL ON AERATION TANK NO. 1, FINAL FINISH COATING OF PAINT ON NEW ENGINE AND BLOWER, INSTALL ENERGY DISSIPATORS IN GRIT CHANNELS TO REDUCE INCOMING WATER TURBULENCE AND ADDITION OF OUTSIDE WEATHERPROOF TELEPHONE TO PROVIDE COMMUNICATION SYSTEM BETWEEN CHEMICAL AND CHLORINE STORAGE TANKS AND UNLOADING FACILITY. (SEE ATTACHED EXPLANATIONS)

TOTAL REVISED CONTRACT AMOUNT INCLUDING THIS CHANGE IS $21,332,230.10

EFFECT OF PASSAGE IMPROVE OPERATION AND SECURITY OF PERSONNEL

EFFECT OF NON-PASSAGE REDUCE MAINTENANCE, REDUCE HEATING COST, SECURITY OF PLANT PERSONNEL WILL BE IMPROVED AND REDUCED OPERATION COST

MONEY INVOLVED (DIRECT COSTS, EXPENDITURES, SAVINGS) $25,738.00 FROM FEDERAL FUNDS

ASSIGNED TO COMMITTEE

EP